



## Bluetooth: Does Anybody Really Care?

### OPINION By Rick Broida

Given all the dollars invested in and ink devoted to Bluetooth, you'd think it was the Second Coming. It's not, and the computing industry is just starting to realize what I've suspected for a while: Bluetooth is gonna be a bust.

In case you're not familiar with the technology, Bluetooth is a radio-based communication specification that promises to wirelessly tie mobile devices to one another and corporate networks. The idea is that you'd walk into the office and have instant access to your e-mail and desktop files, and be able to send instant mes-

### "Unless Bluetooth operation is totally invisible, users will balk."

sages to other Bluetooth device users—all without any cables or line-of-sight limitations. Among the devices that will one day incorporate Bluetooth: printers, cell phones, notebook PCs and, of course, handhelds.

Palm has pledged to embed the technology in future models, and even demonstrated a pair of Bluetooth-enabled Palm Vs at a press briefing last April. Asking the crowd to envision a board meeting situation, the Palm exec scribbled a note on his Palm's screen, and the words appeared simultaneously on the other Palm's screen. (Think instant messaging with a pen instead of a keyboard.) The message? "He's lying."

I'm glad Palm has found such a productive use for Bluetooth, because no one else has been able to come up with a truly compelling application. Sure, we're told that one day you'll walk into an airport and have updated flight times and gate information beamed right to

your Palm—but is that really the killer app? You can get that information by glancing up at a monitor.

Don't get me wrong: I love wireless technologies, and would like to see every future Palm device come with Palm VII-like connectivity. (Attachment modems, like the ones from Novatel Wireless for the Palm V and Visor, are all well and good, but they lack the elegance and compactness of the Palm VII.) But is corporate America going to sink its teeth into Bluetooth? I doubt it—especially where handheld devices are concerned.

First, there's the range situation. Bluetooth devices must be within 30 feet of each other, which limits their versatility. Second, there are power considerations—Bluetooth is apparently so power-hungry that Fujitsu has declined to incorporate the technology in its current mobile devices, at least for now.

The biggest hurdle of all is complexity. Unless Bluetooth operation is totally invisible, users will balk. When I hear PR weasels singing the praises of the technology for notebooks, which will allow users to share files without having to use floppies or cables, I just laugh. How many users can share files across a simple LAN? Not many, because Windows makes it so ridiculously complicated. And few people are going to replace their cell phones with Bluetooth-enabled models just so they can wear hands-free cordless headsets.

Certainly Bluetooth will find its place in a handful of large corporations, but that's it. Bluetooth will suffer the same fate as the Iridium satellite-phone system: it'll cost a king's ransom to put the technology in orbit, and in a year it'll cost even more to shoot it down. What a waste.

### REVIEW

#### TealNotes \$13.95, TealPoint Software, [www.tealpoint.com](http://www.tealpoint.com)

TealNotes is a system enhancement that adds drawing capabilities to almost any program that supports multiple-line text entry. Now you can, say, draw a small map in a Memo Pad document where you're writing down directions, or insert a piece of clip art in a Doc file.

The program works its magic by inserting a special string of characters in the text to indicate a TealNote. This means you may see a bit of gibberish in the equivalent record in Palm Desktop, as the graphics don't transfer over.

Just enter the proper shortcut in any document and the TealNotes window pops up, offering a number of drawing sizes. The interface is basic, but it includes all the necessary functionality: freehand drawing, lines, text, multiple

pen sizes, and even color support on the Palm IIIc. If you want to place even more elaborate drawings in your documents, TealNotes can link with TealPoint Software's own TealPaint.

TealNotes uses Hackmaster to interface with the Palm OS, so your applications never really know it's there. We had no problems inserting notes in various programs, including the built-in Palm applications, Memo Plus and SmartDoc. The only real downside is that you must remember to delete any note you've added to a document or record before deleting that document or record. Otherwise, you'll wind up with "orphan" notes that consume memory. (You can manually delete them using the TealNotes interface.) This is the only part that feels like a kludge—in most other respects, TealNotes excels. —Denny Atkin

### NEWS

#### Game Boy Emulator

Gambit Studios' Liberty ([www.gambitstudios.com](http://www.gambitstudios.com)) is the first Game Boy emulator for the Palm OS. The software runs commercial and freeware Game Boy ROMs, and supports both grayscale and color screens. We'll have a full review soon; in the meantime, speed looks to be the sole shortcoming: the company recommends using third-party overclocking software when running Liberty.

#### Half-Price OmniSky

If you've been eyeing the OmniSky wireless modem for your Palm V, now's the time to act. From now until August 31, you can buy the modem for just \$149—50 percent off the regular price. (Actually, you pay full price now, and get a \$150 rebate after six months of paid service.) That's too good a deal to pass up.

#### Enhanced Palm VII Searches

Two of the Web's best search engines, Google and GuruNet, are now available as Palm Query Apps. Find 'em both at [www.palm.net](http://www.palm.net).

#### NEW SOFTWARE

##### Editing Made Easy 2

This e-book aims to improve your writing and editing skills, and includes professional tips on everything from press releases to business reports. *MAH*, [www.angelfire.com/nt/ecomm/ebook.html](http://www.angelfire.com/nt/ecomm/ebook.html)

##### WordSearch 1.0

Can't get enough of those word-search puzzles? This program comes with seven of them, and allows you to create your own using Memo Pad. Way cool. *Individeo*, [www.individeo.net](http://www.individeo.net)

##### WordTris 1.03

Speaking of words, here's a great one that combines Scrabble and Tetris. *Jaffasoft*, <http://members.tripod.co.uk/jaffasoft/index.html>

##### Xonix 1.0

Remember the old arcade game Qix? Then take a trip down memory lane with Xonix, a Qix clone. Capture 75 percent of the screen without getting zapped by the roving sparks. *Beiks LLC*, [www.beiks.com](http://www.beiks.com)



Join the team  
building the  
web to wireless  
world

Now Hiring Palm Developers  
[resumes@jpsystems.com](mailto:resumes@jpsystems.com)



Hardware  
All the best stuff  
Software  
for your PalmPilot  
Accessories  
[www.palmgear.com](http://www.palmgear.com)



We can put your  
spouse's calendar,  
right on  
your Palm.

[www.wesync.com](http://www.wesync.com)